## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE |
|---------------------------|----------|--------|------|
|                           |          |        |      |
| FEE DETERMINATION         |          |        |      |
| O.I.P.E. CLASSIFIER       |          |        |      |
| FORMALITY REVIEW          |          |        |      |
| RESPONSE FORMALITY REVIEW |          |        |      |
|                           |          |        |      |

## INDEX OF CLAIMS

| ., | Rejected                   | N | Non-elected  |
|----|----------------------------|---|--------------|
|    | Allowed                    | 1 | Interference |
|    | (Through numeral) Canceled | Α | Appeal       |
| _  | Restricted                 | 0 | Objected     |

|          |          |              |                         |                                                                            | ·             | •       | ••••     | ••••      |          |          |          |
|----------|----------|--------------|-------------------------|----------------------------------------------------------------------------|---------------|---------|----------|-----------|----------|----------|----------|
| Cla      | im       |              | V                       | $\overline{\lambda}$                                                       | ND P          | te      |          |           | _        |          |          |
|          | T la     | Fc           | 7()                     | Ĭ,                                                                         | 1/4           | 7       | T        | Τ         | T        |          |          |
| ᡖ        | la X     | <b>h</b> /   | 1/9                     | ĽΧ                                                                         | $\mathcal{V}$ |         |          | ŀ         | 1        |          |          |
| Final    | 80       | 179          | <b>₹</b> %              | 1/2                                                                        | Ź             | 3       | 1_       |           |          | Ш        |          |
|          |          | 7            |                         | V                                                                          | v             | 1_      | L        | L         | l        | Ш        |          |
| ľ        |          | $\Pi$        | L                       |                                                                            | L             |         | 1        | _         | $\perp$  | $\sqcup$ |          |
| Г        | 3        | П            | V                       | [⊻                                                                         | 1⊻            | 1_      | $\perp$  | ┸         | ᆚ.       | $\perp$  |          |
|          | 4        | П            | П                       | Ц                                                                          | Ц             | Щ       | 4_       | 1-        |          | $\perp$  |          |
| L        | 5        | $\bot \bot$  | 11                      | Ш                                                                          | L             | Щ.      | $\bot$   | $\perp$   | 4        | 1-       |          |
| L        | 6        | 44           | Ш                       | $\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$ | 1             | Щ.      | +        | +         | +        | +        |          |
| <u> </u> | 7        | 44           | Щ                       | ₩                                                                          | Н             | +       | ╀        | +         | +-       | +-       |          |
| L        | 8        | ╢            | +                       | ₩                                                                          | ₩             | +-      | ╁        | ╀         | +-       | ╁        |          |
| L        | 9        | 44           | $\mathbb{H}$            | ₩                                                                          | ₩             | +       | ╁        | ┿         | ╁        | +        | 1        |
| ⊣        | 10       | +            | #                       | ╫                                                                          | Н             | ╁       | ╁        | ╁         | ╁        | +-       | 1        |
| -        | 140      | +1           | Н                       | ₩                                                                          | H             | ╁       | +        | ┿         | +        | +        | 1        |
| -        | 13       | +            | Η-                      | ₩                                                                          | H             | ╁       | +        | ╅         | +        | +-       | 1        |
| $\vdash$ | 14       | +            | H-                      | ₩                                                                          | H             | +       | +        | ╅         | ╅        | +        | 1        |
| $\vdash$ | 15       | +            | ╫╴                      | ₩                                                                          | +             | H       | +        | $\dagger$ | $^{+}$   | 十        | 1        |
| -        | 16       | Н            | ${\mathsf H}^-$         | ₩                                                                          | +             | H       | +        | +         | ┪        | 1        | 1        |
| $\vdash$ | 17       | Н            | H                       | ₩                                                                          | $^{+}$        | $H^{-}$ | 十        | 十         | $\top$   | $\top$   | 1        |
| $\vdash$ | 18       | Н            | +                       | #1                                                                         |               | H       | 1        | 1         | _        | -1       | 1        |
| -        | 19       | Ш            | 1                       | #                                                                          | $\dagger$     | Ħ       | T        | 7         | T        | T        | 1        |
| F        | 20       | H            | 7-                      | И,                                                                         | И.            | V       |          | $\top$    | T        | Т        | 1        |
| $\vdash$ | 121      | Hċ           | 小                       | 1,                                                                         | 7             | *       | $\top$   | 寸         | 1        | 1        | 1        |
|          |          | 11.          | 1                       | +                                                                          | *             | Ť       | 7        | $\exists$ | $\top$   | 7        | 7        |
| ۴.       | <b>A</b> |              | 1                       | $\top$                                                                     | Ť             | 1       | 1        | T         | T        |          | ]        |
| $\vdash$ | 14       | H            | H                       |                                                                            | T             |         |          |           |          |          |          |
|          | 2        | $\prod$      | П                       | I                                                                          | T             |         |          |           |          |          | 4        |
| Г        | 24       | $\prod$      | П                       |                                                                            |               |         |          | _         | _        | _ _      | ╛        |
|          | 27       | Ц            | Ц                       |                                                                            | _             | _       | $\perp$  | $\dashv$  | _        | 1        | 4        |
|          | 28       | L            | KI.                     | $\perp$                                                                    | _             | _       | _}       | _         | 4        |          | 4        |
| 1        | 20       | ⊢            | Ŋ                       | 1                                                                          | 1             | _       | 4        | _         | -        | _        | 4        |
| L        | 30       | Ш            | ĭĽ                      |                                                                            | <u>,  </u>    | 싞       | -        |           | $\dashv$ | +        | 4        |
| ļ        | 31       | $\sqcup$     | #                       | 11                                                                         | #             |         | -        | -         | -        |          | -        |
| -        | 32       | $\mathbb{H}$ | $\downarrow \downarrow$ | ₩                                                                          | ₽             | ++      | -        | -         | -+       |          | $\dashv$ |
| -        | 33       | $\mathbb{H}$ | *                       | */                                                                         | Н             | 1       |          | -         | -+       | +        | $\dashv$ |
| }        | 34       |              | 7                       | Ϥ                                                                          | H             |         | $\dashv$ | $\dashv$  | $\dashv$ | +        | ┪        |
| -        | 36       |              | -                       | ·······································                                    |               | 7       | $\dashv$ |           | $\dashv$ | $\dashv$ | ┪        |
| ŀ        | 37       | $\dashv$     | $\dashv$                | ┪                                                                          | ¥٨            | *//     |          |           |          | +        | 7        |
| -+       | 38       | $\neg$       | -†                      | 7                                                                          | *             | Ť       | $\neg$   |           | $\Box$   | T        | ٦        |
| ŀ        | 39       | H            | $\neg$                  | 7                                                                          | _             | 7       |          |           |          |          |          |
| ŀ        | 40       | $\vdash$     | 寸                       | $\neg$                                                                     | $\exists$     |         |          |           |          |          |          |
| 1        | 41       | -            | -                       | ᅱ                                                                          | $\neg$        |         | _        |           |          |          | ٦        |
| }        | 42       | $\vdash$     | $\vdash$                | $\dashv$                                                                   |               |         | $\vdash$ |           |          | $\Box$   |          |
| ŀ        | 43       |              | $\vdash$                | ٦                                                                          |               |         |          | -         | Γ        |          |          |
|          | 44       | 1            | H                       |                                                                            |               |         |          |           | Г        |          |          |
| ł        | 45       |              | H                       |                                                                            | Г             |         | Г        |           | Γ        |          |          |
| 1        | 46       | +-           |                         |                                                                            |               |         |          |           |          |          |          |
| .        | 47       |              |                         | Г                                                                          | Г             | Γ       |          |           |          |          |          |
|          | 48       |              |                         |                                                                            |               |         |          |           | $\Box$   |          |          |
|          |          |              |                         |                                                                            |               |         |          |           |          |          |          |
|          | 49       |              |                         |                                                                            | L             |         | _        | L         | _        | $\sqcup$ |          |

|          | <del></del> T - |         |          |         |              |   | at | _       |          |          |          |           |         |    |
|----------|-----------------|---------|----------|---------|--------------|---|----|---------|----------|----------|----------|-----------|---------|----|
| Cla      | ım              | Τ-      | _        | _       | _            | T | al | e .     | Т        | Т        | -        | _         | 1       | _  |
|          | 펼               |         | 1        |         |              |   |    |         |          | 1        |          |           |         |    |
| Final    | Original        | 1       | Ì        |         |              |   |    |         |          | -        |          | İ         |         |    |
| 正        |                 | +       | +        | _       | -            | + | _  | -       | ╀        | +        |          |           | ╁       | -  |
| _        | 51              | 1       | 4        | _       | ļ            | 4 | _  | -       | ╀        | -        |          | ├-        | ╀       | _  |
|          | 52              | $\perp$ | 4        | _       | 1            | + |    | _       | ↓-       | 4        |          | _         | 1       | _  |
|          | 53              | $\perp$ | 1        | _       | L            | ⊥ |    | L       | L        | _        |          | L         | Ļ       | _  |
|          | 54              | 1       | 4        |         | L            | 1 | _  | _       | ╄        | _        |          | -         | 1       | _  |
|          | 55              |         | _        | _       | L            | 1 | _  |         | 1        | 4        |          | Ļ         | 4       | _  |
|          | 56              | l       | ┙        |         | 1_           | ╧ |    | L       | $\perp$  | _        |          | L         | 1       | _  |
|          | 57              |         | ┙        |         | L            | 1 |    |         | 1        | _        |          | L         | ╀       | _  |
|          | 58              | L       |          |         | 1_           | 1 | _  | L       | $\perp$  |          |          | Ļ.        | 1       | _  |
|          | 59              |         |          |         |              |   |    |         | $\perp$  |          | <u> </u> | L         | $\perp$ | _  |
|          | 60              | Τ.      |          |         | I            | 1 |    | L       | 1        |          | _        | L         | _       |    |
| Π        | 61              | Т       |          |         |              | T |    |         | L        |          |          | L         | L       |    |
|          | 62              | T       | ٦        |         | Т            | T |    | Π       | T        |          |          |           | L       |    |
| Т        | 63              | T       | 7        |         | Т            | ٦ |    |         | Т        |          |          |           |         |    |
| Т        | 64              | 1       | ٦        | -       | T            | 1 | _  | Τ       | Ţ        |          |          | T         | Ţ       |    |
| ┢        | 65              | $\top$  | 7        | _       | T            | 1 |    | 1       | T        |          |          | Τ         | Τ       |    |
| -        | 66              | _       | T        |         | T            | 1 |    | Τ       | 1        |          | Γ        | T         | Т       |    |
| ┢        | 67              | +       | $\neg$   |         | Ť            | 7 |    | T       | 7        |          | T        | T         | 7       |    |
| ┝        | 68              | +       | ┪        |         | $^{\dagger}$ | 1 | _  | †       | ✝        |          |          | T         | T       | _  |
| H        | 69              | -+      | _        | Н       | ✝            | ┪ | _  | +       | +        |          | Г        | +         | +       |    |
| ┝        | ++-             | +       | _        | H       | 十            | + | _  | 十       | +        | _        | t        | ╈         | +       |    |
| L        | 70              | 4       |          | Ļ       | +            |   |    | +       | -1       | _        | ╀        | +         | +       |    |
| L        | 71              | -+      |          | L       | +            | - | _  | ╁       | +        | _        | ╁        | +         | +       | _  |
| L        | 72              | 4       |          | L       | 4            | 4 |    | +       | 4        | _        | ╀-       | +         | +       | -  |
| L        | 73              | 4       |          | L       | 4            | _ | _  | +       | 4        |          | ╀        | +         | +       | _  |
| L        | 74              | 1       |          | L       | 1            |   | L  | +       | 4        |          | ╄        | +         | +       | _  |
| L        | 75              | _       |          | L       | 4            |   | _  | $\perp$ | 4        |          | +        | +         | +       | _  |
| L        | 76              |         |          | L       | $\perp$      |   | L  | 1       | 4        |          | ╄        | +         | -       | _  |
| Ĺ        | 77              |         |          | L       | 1            |   | L  | 1       | $\dashv$ |          | ╀        | 4         | 4       | _  |
|          | 78              |         |          |         | _            |   | L  | 1       | _        |          | ┸        | 4         | 4       | _  |
| Г        | 79              |         |          | L       | $\perp$      |   | L  | $\perp$ | _        | _        | 1        | 4         | _       | _  |
| Γ        | 80              |         |          | Ι       | 1            |   | L  |         |          |          | 1        | 4         | 4       |    |
|          | 81              |         |          | T       | T            |   | L  |         |          |          | L        |           |         | _  |
| T        | 82              |         |          | Т       |              |   | Γ  | Ι       |          |          |          | 1         |         |    |
| r        | 83              |         |          | T       |              |   | Γ  | T       |          |          | 1        |           |         | _  |
|          | 84              |         |          | T       | T            |   | Τ  | T       |          |          | l        |           |         |    |
|          | 85              |         |          | T       | T            |   |    |         |          |          |          |           |         | _  |
| 卜        | 86              |         |          | 1       | 7            |   | T  | T       |          |          | T        | $\exists$ |         |    |
| F        | 87              |         | _        | †       | ヿ            |   | 1  | 7       |          | Г        | T        |           |         |    |
| $\vdash$ | 88              | _       | $\vdash$ | †       | 7            |   | T  | 7       | _        | Γ        | 7        | 1         |         | Г  |
| H        | 89              | _       | -        | †       | $\dashv$     |   | t  | 1       | _        | 1        | 1        |           |         | Γ  |
| +        | 90              | -       | ┝        | +       | $\dashv$     | _ | †  | +       |          | $\vdash$ | +        | 1         |         |    |
| -        |                 | -       | -        | +       | -            |   | +  | +       |          | t        | +        | +         | -       | +  |
| -        | 91              | -       | -        | 4       | _            |   | +  | -+      |          | ╀        | +        | -         | _       | +  |
| -        | 92              | _       | _        | 4       | -            | _ | +  |         | _        | +        | +        | -         | _       | 1- |
| L        | 93              | _       | L        | 4       | 4            | _ | +  | 4       |          | ╀        | +        |           |         | H  |
|          | 94              | L       | L        | 1       |              |   | 1  | 4       |          | 1        | +        | _         | _       | ł  |
|          | 95              | Ĺ       | L        | $\perp$ |              | L | 1  |         |          | 1        | 4        | _         |         | 1  |
| ſ        | 96              | L       | L        |         |              | L | 1  |         |          | Ļ        | 4        | _         |         | ļ  |
|          | 97              |         | Ī        |         |              | L | 1  |         |          | 1        | _        |           | _       | ļ  |
| Ī        | 98              |         | Γ        |         | _            | Ĺ |    |         | _        | 1        | $\perp$  | _         | _       | 1  |
|          |                 | -       | 1        | -1      |              |   |    |         |          |          |          |           |         |    |

|          | . UL     | jec      | ıeı | J  |   |              |   |     |        |   |              |              |          |          |          |
|----------|----------|----------|-----|----|---|--------------|---|-----|--------|---|--------------|--------------|----------|----------|----------|
| Cla      | aim      |          |     |    | _ |              | ( | Dat | е      |   |              |              |          |          |          |
| Final    | Original |          |     |    |   |              |   |     |        |   |              |              |          |          |          |
| _        | 101      |          | Н   | t  | 7 | _            | † |     | _      | † | 7            |              | _        | H        |          |
|          | 102      |          | Г   | T  | _ | _            | † |     | Г      | 1 | -            |              |          |          |          |
|          | 103      |          |     | T  | _ |              | Ţ |     |        | T |              |              |          |          |          |
|          | 104      |          |     | I  |   |              | I |     |        | I |              |              |          |          |          |
|          | 105      |          | L   | 1  |   | L            | 1 |     | L      | 4 |              |              | _        | Ш        |          |
|          | 106      |          | L   | 4  | _ | L            | 4 | _   | _      | 4 | _            | _            | _        | ļ.,      |          |
| _        | 107      | _        | L   | 4  |   | L            | 4 |     | L      | + | _            | <u> </u>     | -        | -        |          |
| -        | 108      | _        | ┡   | +  |   | -            | + |     | -      | - | _            | -            | ├        | ╁        |          |
| _        | 109      | $\vdash$ | ╁   | +  |   | -            | + |     | ╁      | + |              | $\vdash$     | ╁        | $\vdash$ |          |
| -        | 110      | -        | ╀   | +  | _ | H            | ┪ |     | ┝      | 4 |              | -            | ╁        | $\vdash$ |          |
| ┝        | 112      |          | +   | +  | _ | ┝            | + |     | t      | 1 |              | $\vdash$     | +        | $\vdash$ |          |
| -        | 113      | -        | +   | †  |   | t            | 1 |     | t      | ┪ |              | H            | †-       | 1        |          |
| ┝        | 114      | •        | t   | †  |   | T            | 7 | _   | T      | 7 |              |              | 1        | $\top$   | 1        |
| Г        | 115      | 4        | T   | 1  |   | T            | 1 |     | 1      |   |              | Γ            |          | Τ        | ]        |
| Г        | 116      |          |     | 1  |   |              |   |     | I      |   |              | L            | L        |          |          |
|          | 117      |          | L   |    |   |              |   |     | L      |   | _            | ┖            | <u> </u> | ↓        | 1        |
| L        | 118      | -        | L   | 4  |   | L            | 4 | _   | ╀      | _ | _            | <u> </u>     | ╀        | ┼        | ł        |
| L        | 119      | +        | Ļ   | 1  |   | Ļ            | _ |     | ļ      | _ |              | L            | ╀        | +        | -        |
| L        | 120      | _        | L   | ╛  |   | L            |   | L   | 1      | _ | L.           | ļ_           | 1        | 1        | 1        |
|          | 12       |          | 1   | 4  |   | 1            |   | L   | 1      |   | _            |              | ╀        | ┼-       | -        |
| L        | 122      |          | 1   | _  | _ | ╀            | _ | _   | +      | _ | <del> </del> | +            | ╀        | +        | ┨        |
| L        | 12       |          | +   | 4  | _ | ╀            |   | -   | +      |   | -            | ╀            | ╀        | ╁        | ┨        |
| L        | 12       |          | +   | _  | _ | +            |   | -   | $^{+}$ |   | -            | ╁            | ╁        | +        | 1        |
| $\vdash$ | 12       |          | +   | _  | - | +            |   | -   | +      |   | ├            | ╁╴           | ╁        | +        | 1        |
| $\vdash$ | 12       | _        | +   | -  |   | $^{\dagger}$ | _ | -   | +      | _ | H            | +            | 1        | +-       | 1        |
| $\vdash$ | 12       |          | +   | _  | Н | †            | _ | T   | †      | _ | 1            |              |          |          | ],       |
| $\vdash$ | 12       |          | †   | _  |   | †            | _ | Γ   | 1      |   |              | I            |          |          | Y        |
| 卜        | 13       | 0        | T   |    |   |              |   |     | I      |   |              |              | 1        | 4        | 1        |
|          | 13       | 1        |     |    |   |              |   |     | 1      | _ | L            | Ι,           | 4_       | -        | -        |
|          | 13       |          |     |    |   | 1            | _ | L   | 4      |   | L            | ¥            | 4        | - -      | 4        |
| L        | 13       |          | 4   | _  | L | 4            |   | 1   | 4      |   | ╀            | 1            | -        |          | 4        |
| -        | 13       |          | 4   |    | ├ | +            | _ | +-  | +      |   | +            | +            | -        | +-       | 1        |
| -        | 13       |          | +   |    | ╀ | +            | _ | ╁   | +      |   | ╁            | +            | +        |          | 1        |
| +        | 13       | -        | +   |    | H | +            | - | +   | +      | _ | +            | $\dagger$    | +        | $\top$   | 1        |
| -        | 13       | -+-      | +   |    | + | +            |   | †-  | 1      | _ | 1            | †            | 1        |          |          |
| H        | 13       | _        | +   | _  | T | 7            |   | 1   | 1      | _ |              | I            | I        | I        |          |
| H        | 1/4      | _        | 1   | _  | + | - }          | _ | T   | 1      |   | i            | Ţ            |          | ·        |          |
| H        | 1.       |          | 7   |    | t | 1            | _ | T   |        |   | -1           | †            |          |          |          |
| h        |          | 12       | 7   |    | † | 1            | _ | 1   |        |   | 1            | <del>-</del> |          | ·<br>    | 1        |
| t        |          | 13       | 7   | _  | T | 1            | _ |     | -      |   | 1            |              |          |          | •        |
| ļ        |          | 44       | _   |    | I | _]           |   | I   |        | _ | 1            | -            | -¦-      |          | -1       |
| 1        | 7.       | 15       |     |    | I |              | _ | I   | _      | _ | +            | 4-           |          |          | 4        |
|          |          | 16       |     | _  | 1 | _            | _ | +   | _      |   | +            | +            | +        | +        |          |
|          |          | 47       | _   | L. | 1 | 4            | _ | +   |        | - | +            | +            | +        | +        | $\dashv$ |
|          |          | 48       | _   | _  | + | _            | - | +   |        | - | +            | +            |          |          | -        |
| 1        | 1        | 49       |     | L  | 4 |              | _ | +   |        | - | -ļ-          |              |          |          | 4        |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)